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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/856,849	05/25/2001	Kazuya Serizawa	82300	4747
20529	7590 06/05/2003			
NATH & ASSOCIATES			EXAMINER	
1030 15th ST 6TH FLOOR			MILLER, EDWARD A	
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			3641	
			DATE MAILED: 06/05/2003	}

Please find below and/or attached an Office communication concerning this application or proceeding.

		A				
	Application No.	Applicant(s)				
	09/856,849	SERIZAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Edward A. Miller	3641				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	March 2002					
1) Responsive to communication(s) filed on <u>05 №</u> 2a) This action is <b>FINAL</b> . 2b) This	s action is non-final.					
/ <b>-</b>		recognition as to the morits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) <u>1,2 and 12-20</u> is/are pending in the a	pplication.					
4a) Of the above claim(s) 20 is/are withdrawn fi	4a) Of the above claim(s) <u>20</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2 and 12-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.					
9)☐ The specification is objected to by the Examine	•.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35-U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a)  The translation of the foreign language pro</li> <li>15) Acknowledgment is made of a claim for domesting</li> </ul>	* *					
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4</li> </ol>	5) Notice of Informal I	(PTO-413) Paper No(s) Patent Application (PTO-152)				
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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2 and 12-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over each of Menke et al. '661, Ryder, and Fleming et al. '906 and '975.

Each of these references teach compositions which include ammonium nitrate (AN), carbon black, and various stabilizers. These include phase stabilizers for AN, stabilizers for various added ingredients, and so on. In Ryder et al., particularly, note col. 6, lines 19-65 including the example amounts. Indeed, these references may be the epitome of obviousness, anticipation, as to the broader claims as now written. See *In re Pearson*, 181 USPQ 641 (CCPA 1974). In Menke et al., note col. 4, the table, wherein the ammonium nitrate includes a phase stabilizer at 3% as well as carbon black at ½ %. In the Fleming et al. documents, note the various compositions in the Tables, with additives including various stabilizers and carbon black. Variation of specific notoriously well known ingredients, particle sizes, propellant conformation (tubular and multi-hole propellants) and amounts, are all notoriously well known in the art, and would have been obvious to one of ordinary skill in the art. It is well settled that optimizing a result effective variable is well within the expected ability of a person or ordinary skill in the subject art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980), *In re Aller*, 220 F.2d 454, 105 USPQ 233 (CCPA 1955).

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gardner (col. 2, lines 26 and 34), Goldstein et al. and Wu further teach compositions

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with AN and carbon fuel, while Walsh (col. 5, lines 59-65), the drawings of Japanese 10-120484 and Johansson et al. further teach regarding standard propellant physical conformations or structure.

4. Any inquiry concerning either this or an earlier communication from the Examiner should be directed to Examiner Edward A. Miller at (703) 306-4163. Examiner Miller may normally be reached Monday-Thursday, from 10 AM to 7 PM.

If attempts to reach Examiner Miller by telephone are unsuccessful, his supervisor Mr. Carone can be reached at (703) 306-4198. The Group fax number is (703) 305-7687.

If there is no answer, or for any inquiry of a general nature or relating to the application status, please call the Group receptionist at (703) 308-1113.

Miller/em May 31, 2003

EDWARD A. MILLER PRIMARY EXAMIN 知